MANUAL OF 1950 MOST-OFTEN-NEEDED RADIO DIAGRAMS

EMERSON RADIO

MODEL: 602

An internal power line antenna is provided for FM reception in relatively strong signal areas. The line cord should be completely uncoiled for effective operation of this antenna. An external dipole antenna is recommended for maximum FM operation. To connect the dipole, remove the wire from the screw terminal at the rear of the chassis marked "A" and connect the dipole leads to "A" and "G".

And placed in contract

CHASSIS MODELS: 120072A, 120082A

NOTE: This service note covers Model 602. The information contained herein applies equally to similar models, including Models 600 and 616.

TYPE: Single band FM superheterodyne

FREQUENCY RANGE: Frequency modulation band-88-108

megacycles

INSTRUCTIONS FOR VOLTAGE AND RESISTANCE READINGS

- Voltage readings are in volts and resistance readings in ohms unless otherwise specified.
- D.C. voltage measurements are at 20,000 ohms per volt; a.c. voltages are measured at 1000 ohms per volt.
- Socket connections are shown as bottom views. 3.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ± 15% in voltage and resistance readings.
- Volume control at maximum, no signal applied, for voltage measurements.

 Resistance readings in the B+ circuits may vary widely according to the condition of the filter condensers.

VOLTAGE READINGS

| SYMBOL & TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 | PIN 9 |
|--|-------------------------|--------------------------------|--|---|--|---|--------------------------------------|-------|-------|
| V1 (12BA7) V2 (12BA6) V3 (12BA6) V4(12S8GT) V5 (35B5) V6 (35W4) | -0.5 DC -0.3 DC 0 | 0 0 0 0 6 DC NC | 0 26 AC 26 AC -0.4 DC 50 AC 84 AC | 38 AC 38 AC 13 AC 0 84 AC 117 AC | 50 AC 88 DC 88 DC -0.3 DC 110 DC 113 AC | 0 88 DC 88 DC 45 DC 90 DC NC | 0 0 0 13 AC NC 118 DC | 0 | 96 DC |

NC denotes "no connection."

RESISTANCE READINGS

| SYMBOL & TUBE | PIN 1 | PIN 2 | PIN 3 | PIN 4 | PIN 5 | PIN 6 | PIN 7 | PIN 8 | PIN 9 |
|--|--|----------------------------------|-----------------------------------|----------------------------------|--|--|---------------------------------|------------------|-------|
| V1 (12BA7) V2 (12BA6) V3 (12BA6) V4(12S8GT) V5 (35B5) V6 (35W4) | 2.2 meg. 2.2 meg. 660 K 500 K | 22 K 0 0 0 180 NC | 0 25 25 32 K 50 85 | 38 38 12 0 85 120 | 50 60 K 55 K 660 K 50 K 160 | 0 60 K 55 K 610 K 50 K NC | 0 0 0 12 NC 80 K | 0 - 0 - | 50 K |

K denotes "kilohm" (1000 ohms); meg. means "megohm."

